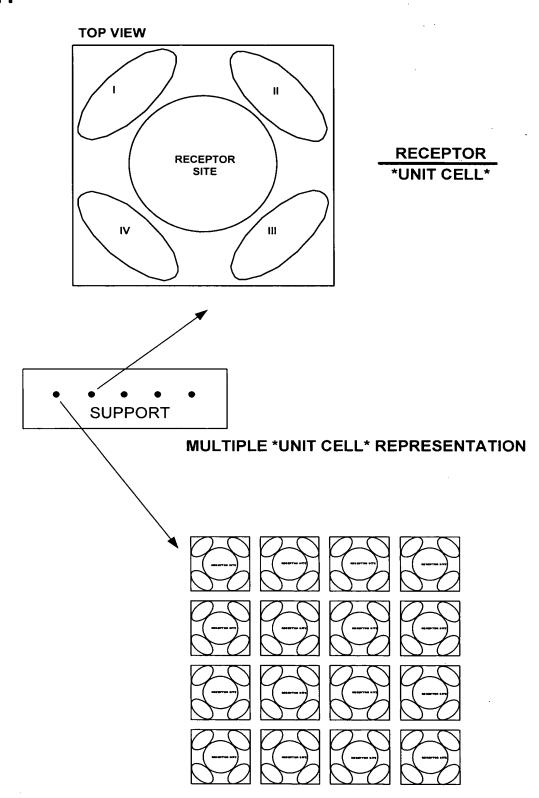
Inventor: CARLSON Docket No.: 14095.1USC6 Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING BLOCKS AND METHODS OF MAKING AND USING THEM Attorney Name: MARK T. SKOOG Phone No.: (612) 371-5311 Sheet 1 of 26



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 2 of 26

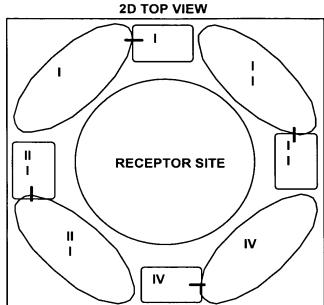
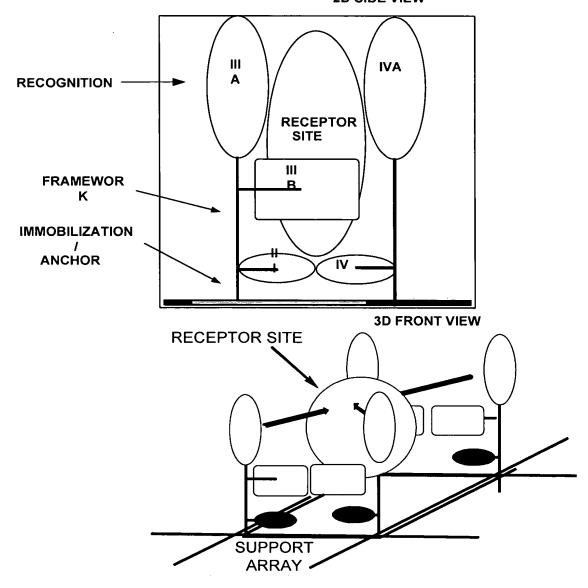


FIG.2

2D SIDE VIEW



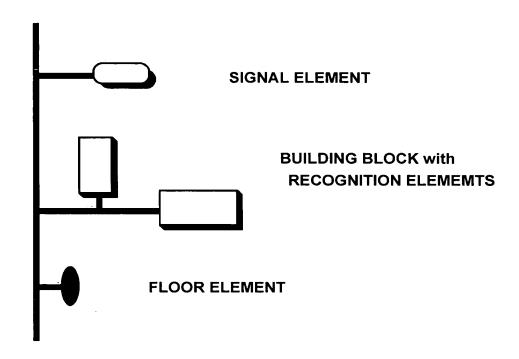
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311

Phone No.: (612) 371-5311 Sheet 3 of 26

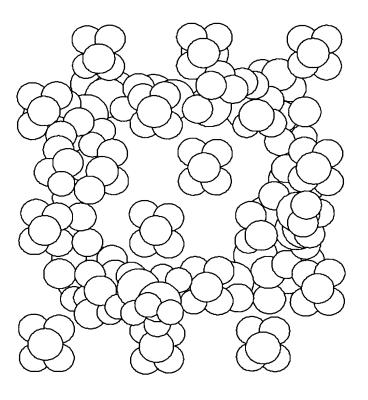
FIG.3A

Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 4 of 26

FIG.3B



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 5 of 26

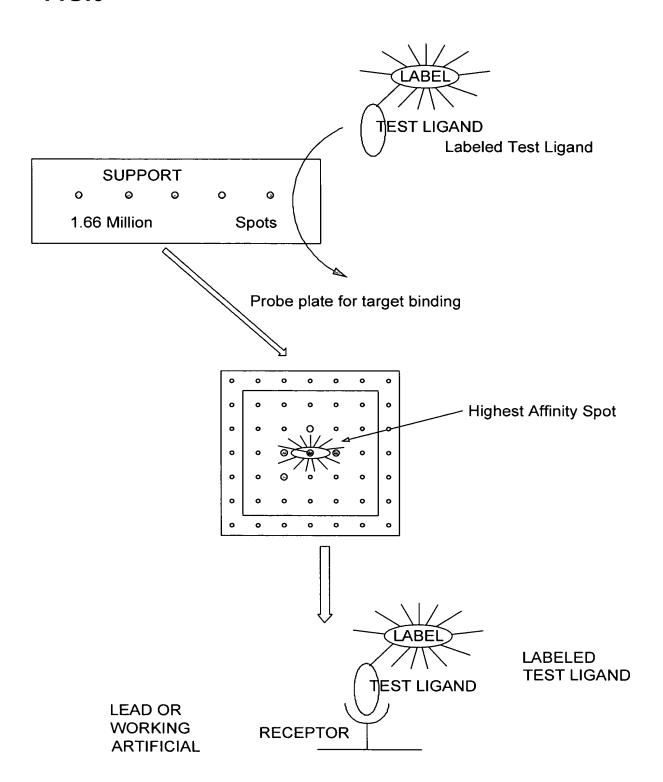


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 6 of 26

Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING

ANTIFICIAL RECEPTORS INCLUDING AMINO ACID BLOCKS AND METHODS OF MAKING AND USING THEM Attorney Name: MARK T. SKOOG Phone No.: (612) 371-5311 Sheet 7 of 26

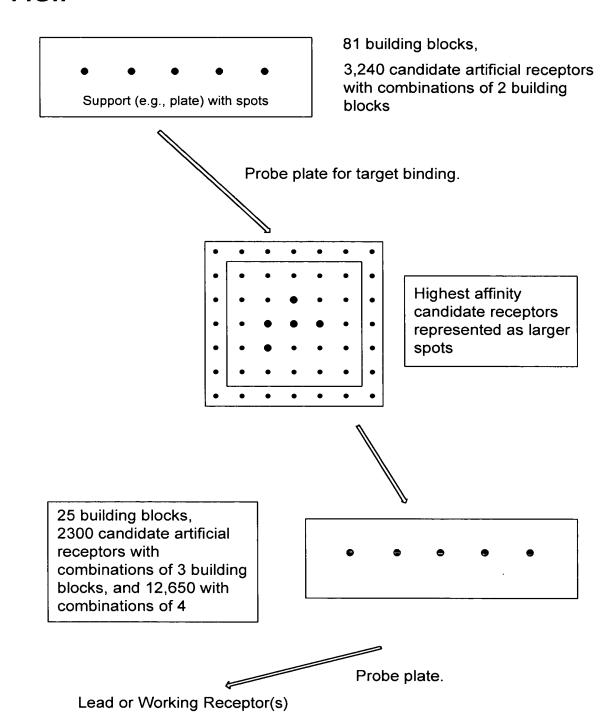
FIG.6



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG

Phone No.: (612) 371-5311

Sheet 8 of 26

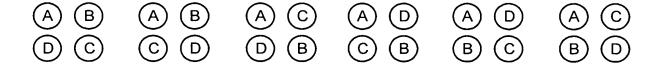


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG

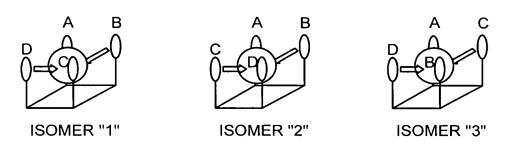
Phone No.: (612) 371-5311 Sheet 9 of 26

FIG.8

6 POSITIONAL ISOMERS OF 4 BUILDING BLOCKS AT **VERTICES OF A QUADRILATERAL**

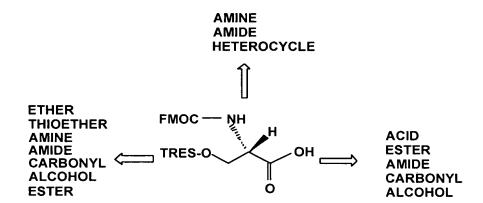


POSITIONAL ISOMERS ON A SCAFFOLD

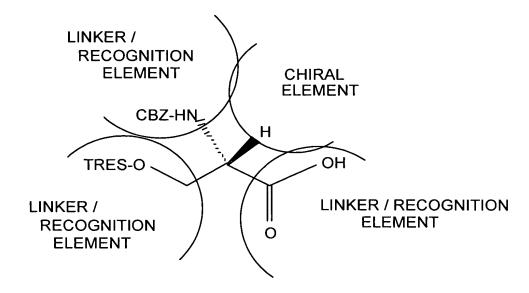


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG

Phone No.: (612) 371-5311 Sheet 10 of 26

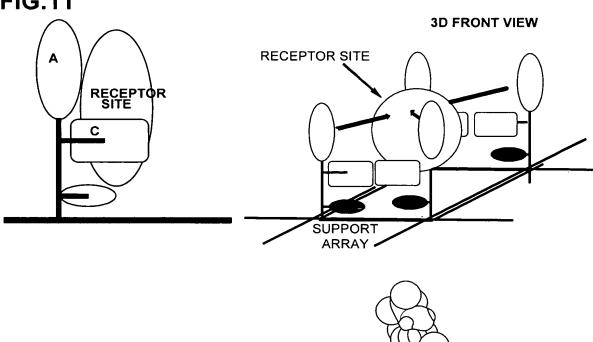


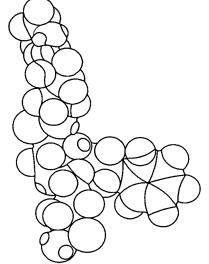
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 11 of 26

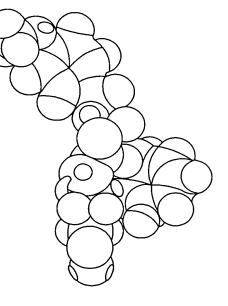


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 12 of 26



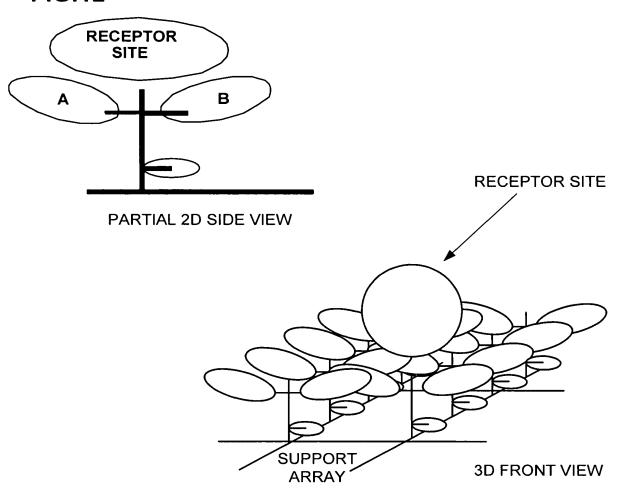






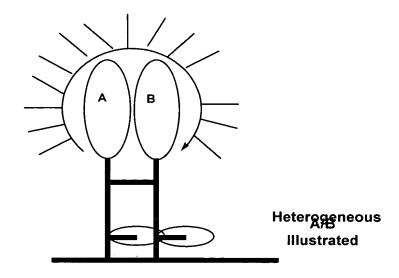
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 13 of 26

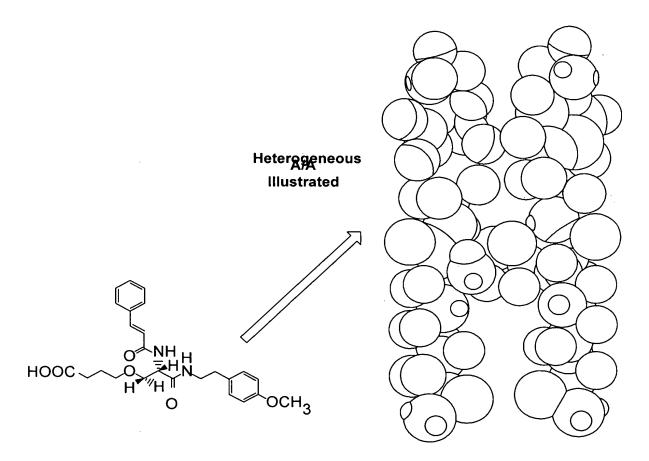
FIG.12



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 14 of 26

FIG.13





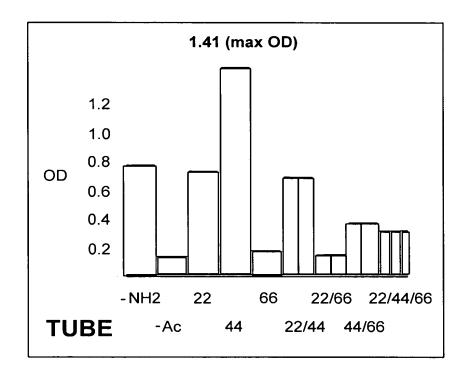
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 15 of 26

FIG.14

Formula H5:

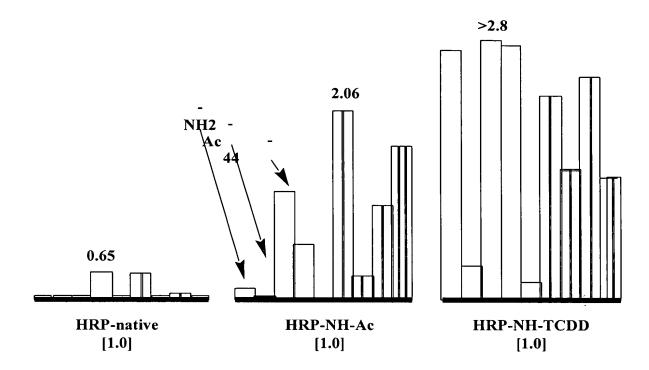
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 16 of 26

FIG.15A

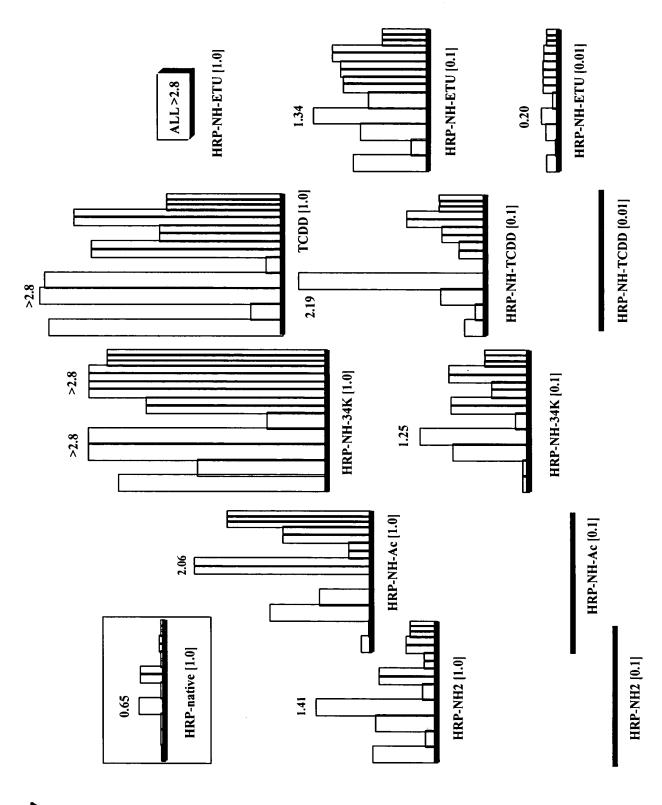


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 17 of 26

FIG.15B

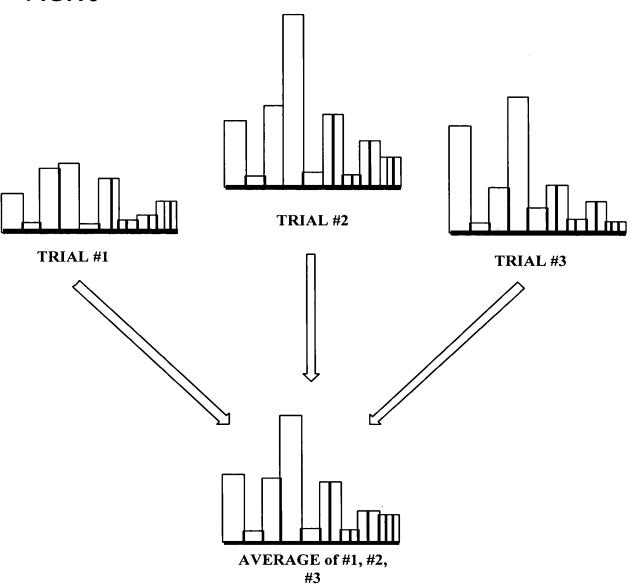


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 18 of 26



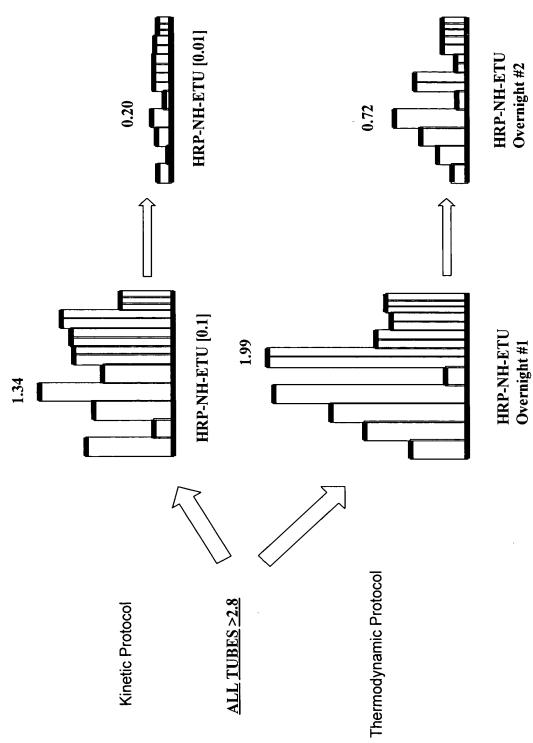
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 19 of 26





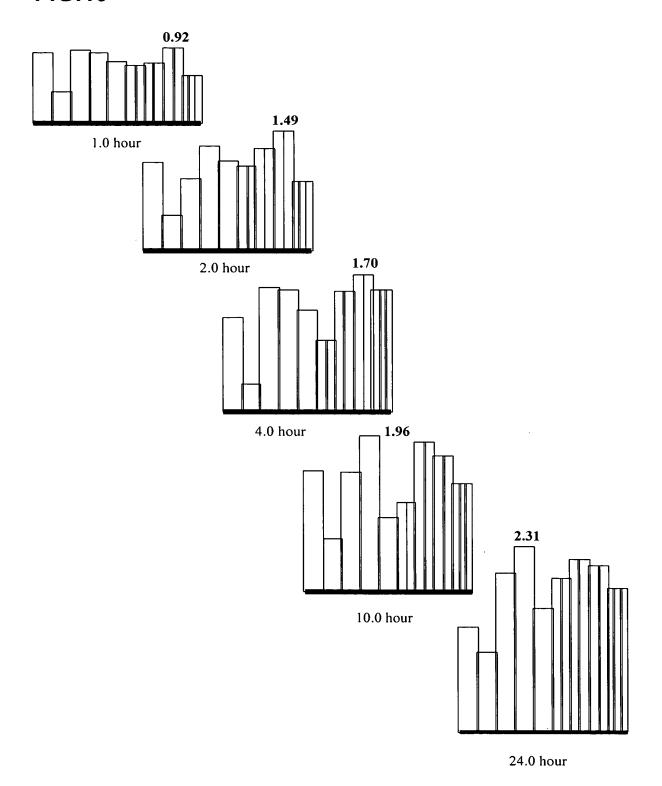
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Stept 20-6 24

Sheet 20 of 26

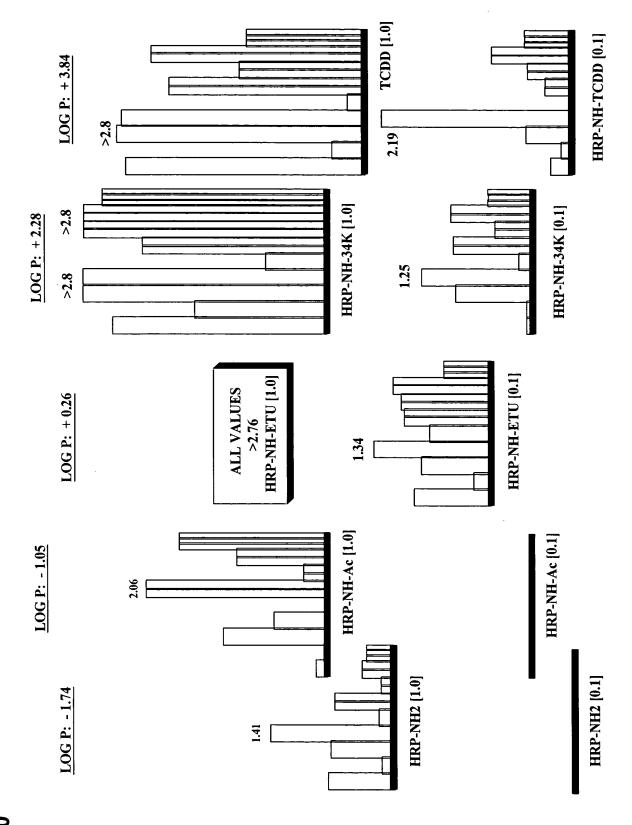


Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 21 of 26

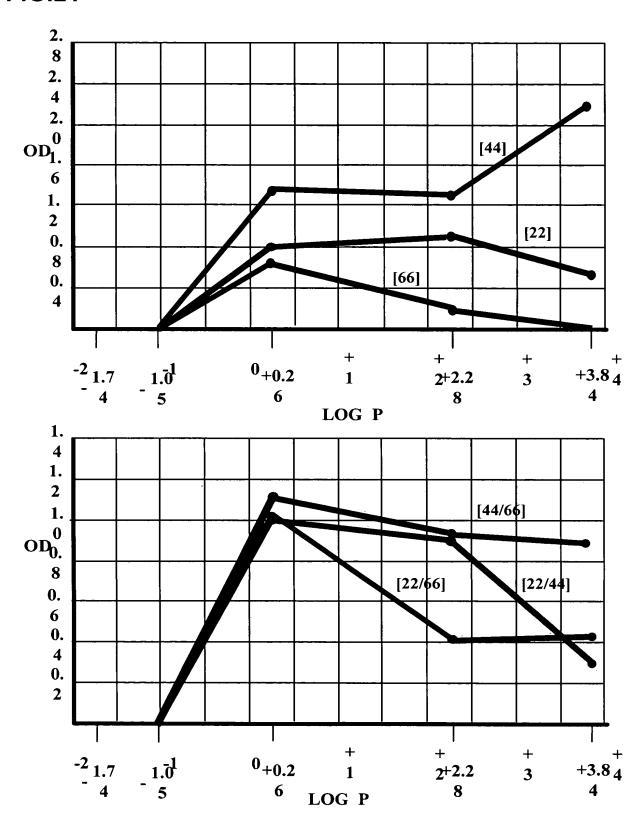
FIG.19



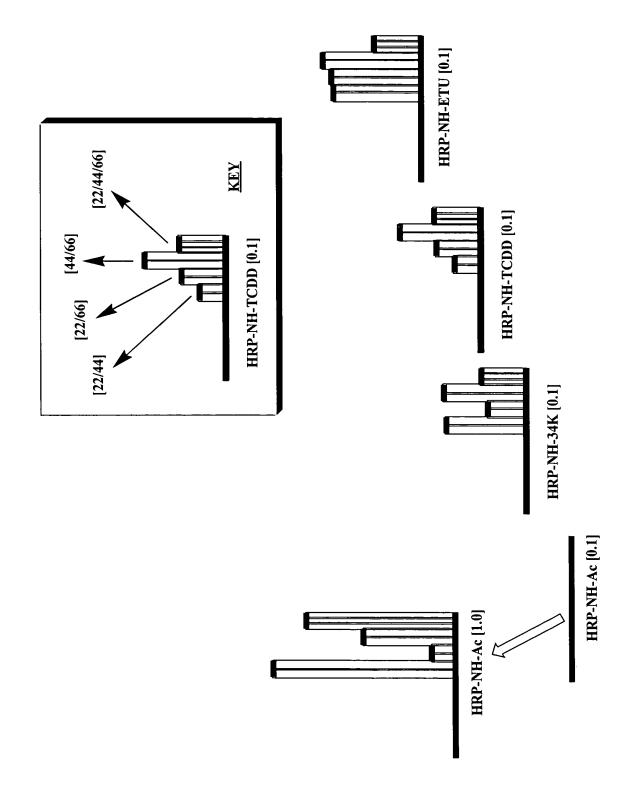
Inventor: CARLSON Docket No.: 14095.1USC6 Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING BLOCKS AND METHODS OF MAKING AND USING THEM Attorney Name: MARK T. SKOOG Phone No.: (612) 371-5311 Sheet 22 of 26



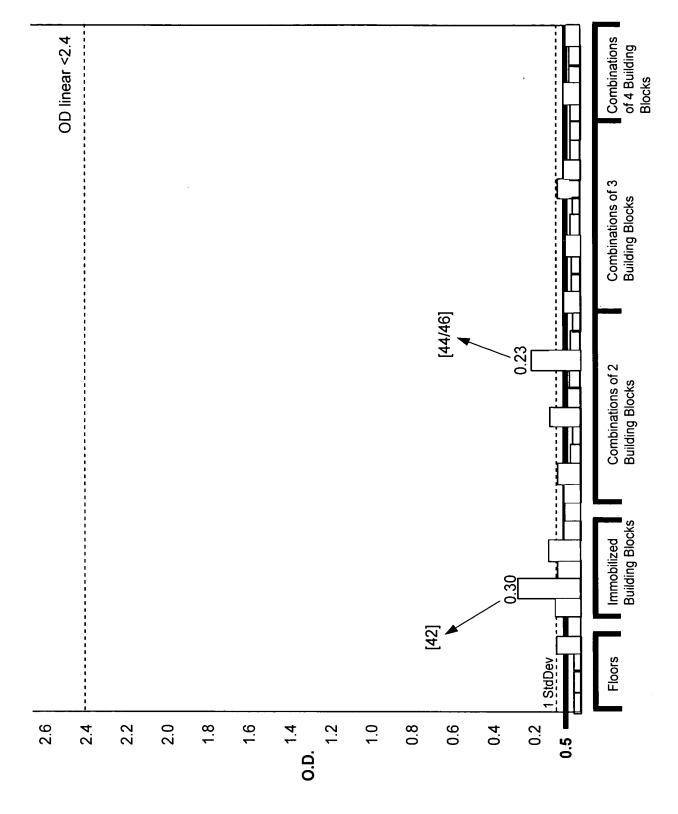
Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 23 of 26



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 24 of 26



Inventor: CARLSON
Docket No.: 14095.1USC6
Title: ARTIFICIAL RECEPTORS INCLUDING AMINO ACID DERIVED BUILDING
BLOCKS AND METHODS OF MAKING AND USING THEM
Attorney Name: MARK T. SKOOG
Phone No.: (612) 371-5311
Sheet 25 of 26



:1G.23

